



PROPANE MONOBLOCK (R-290)

Air and Water-Cooled Pre-Charged Refrigeration Systems



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Features and Benefits

Krack® Monoblock top-mounted refrigeration systems combine all the benefits of an evaporator and a condensing unit into a single packaged system. Designed to reduce installation time and refrigerant costs, the Monoblock maximizes storage space in a cold room cooler or freezer and is ideal for small and medium-sized food service, convenience store, and light industrial applications.

The Krack® water-cooled monoblock system works by removing heat from the high temperature side (condensing) with a water pumping mechanism, interconnections, and external heat exchange system (water loop - not part of product). The Krack® air-cooled monoblock system works by removing heat from the high temperature side (condensing) with air-cooled condensers and high efficiency fans. Krack® provides recommendations and solutions for removing heated exhaust from air-cooled systems if required.

EASE OF INSTALLATION

- Pre-charged with propane refrigerant
- No refrigerant piping required at installation site
- Units pre-programmed with Dixell controller and digital display

ENERGY EFFICIENCY

- Energy efficient EC motors
- Hot gas defrost with heated pan
- Variable Capacity Compressor (VCC)

ENVIRONMENTAL ADVANTAGE

- Propane (R-290) has a Global Warming Potential (GWP) value of 3 and Ozone Depleting Potential (ODP) of zero meeting CARB and US Climate Alliance requirements

CONTROLS

- The **Krack®** Monoblock leverages a Dixell XWi70K control with frequency signal to control the variable

Why Use Natural Refrigerant Solutions?

ECO-FRIENDLY

- Is a natural, non-toxic, environmentally friendly refrigerant
- Propane has a low Global Warming Potential (GWP) rating of 3, compared to an average HFC refrigerant, which has a GWP rating greater than 1,300
- Propane has an Ozone Depletion Potential (ODP) of **zero**

PROPANE REFRIGERANT

- Monoblock units are charged with up to 150 grams (5.3 ounces) of propane per circuit
- Reduces the full store refrigerant charge by 90-95 percent vs. stores using HFC refrigerants
- Produced specifically for refrigeration cooling and is different than propane used for outdoor grilling

FUTURE-PROOF

- The EPA lists propane as an acceptable refrigerant substitute under its Significant New Alternatives Policy (SNAP)
- Propane is exempted from the venting prohibition in the Clean Air Act (Section 608)



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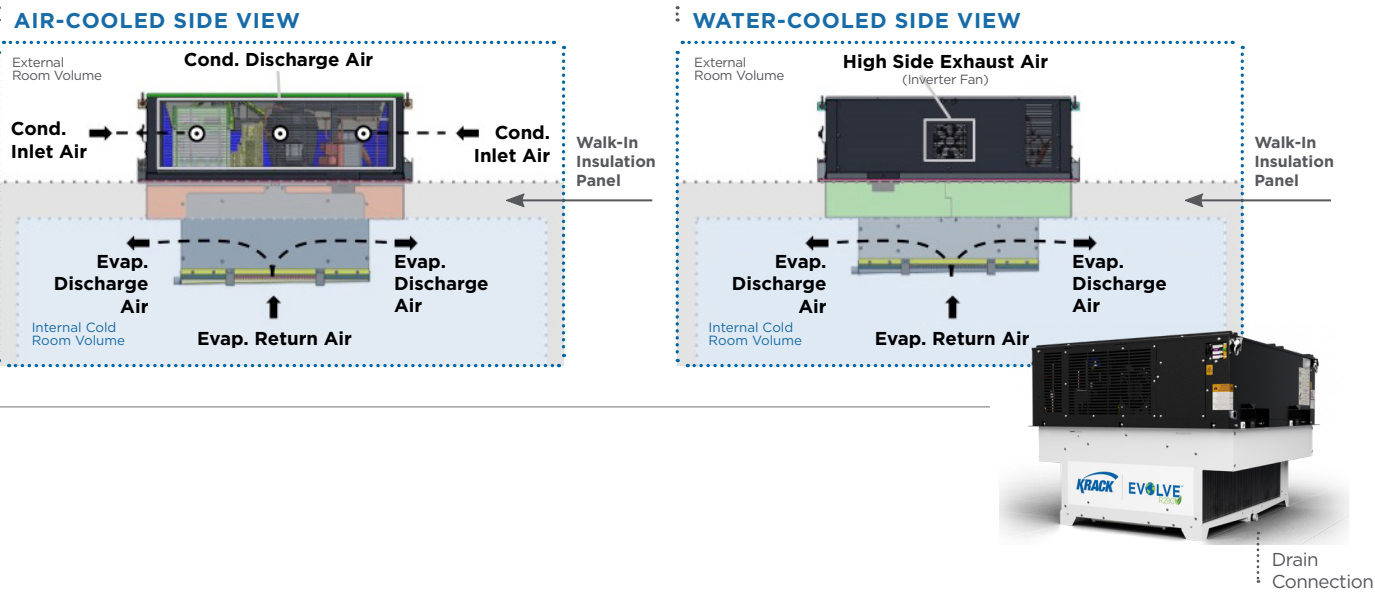
Nomenclature

K L 2 V W 15 U G D R									
Unit Type Krack® Self-Contained Monoblock			Defrost Synchronization R - With RTC N - No RTC						
Temperature Application M - Medium L - Low			Unit Voltage D - 208-230/1/50/60						
Number of Compressors 2 - Two 4 - Four			Defrost Type G - Hot Gas						
Compressor Type V - Variable Speed			Refrigerant U - R-290 (Propane)						
Type of Condenser A - Air-Cooled W - Water-Cooled			Compressor Displacement (CC)						



The **Krack®** Monoblock refrigeration system meets CARB and US Climate Alliance requirements.

Airflow Design



Air-Cooled Performance Data

KM2VA15UGDR - MEDIUM AIR												
	28°F BOX TEMPERATURE			35°F BOX TEMPERATURE			40°F BOX TEMPERATURE			50°F BOX TEMPERATURE		
INLET AMBIENT TEMP (°F)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)
70	11,470	1.72	17,350	12,640	1.81	18,817	13,334	1.86	19,676	15,135	2.02	22,025
75	11,194	1.75	17,158	12,294	1.83	18,545	12,996	1.89	19,439	14,683	2.03	21,606
80	10,919	1.77	16,966	11,948	1.85	18,273	12,659	1.92	19,203	14,231	2.04	21,187
85	10,643	1.80	16,775	11,601	1.87	18,001	12,322	1.95	18,966	13,780	2.05	20,768
90	10,368	1.82	16,583	11,255	1.90	17,729	11,984	1.98	18,730	13,328	2.06	20,349
95	10,093	1.85	16,391	10,909	1.92	17,457	11,647	2.01	18,494	12,876	2.07	19,930

KL2VA15UGDR - STANDARD LOW AIR												
	-15°F BOX TEMPERATURE			-10°F BOX TEMPERATURE			-5°F BOX TEMPERATURE			5°F BOX TEMPERATURE		
INLET AMBIENT TEMP (°F)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)
70	4,854	1.29	9,247	5,435	1.35	10,052	6,136	1.45	11,070	7,417	1.56	12,738
75	4,697	1.30	9,140	5,304	1.37	9,976	5,960	1.46	10,932	7,251	1.58	12,635
80	4,539	1.32	9,033	5,174	1.39	9,901	5,783	1.47	10,793	7,085	1.60	12,532
85	4,382	1.33	8,926	5,043	1.40	9,826	5,606	1.48	10,654	6,919	1.61	12,430
90	4,224	1.35	8,819	4,913	1.42	9,751	5,430	1.49	10,515	6,753	1.63	12,327
95	4,067	1.36	8,711	4,783	1.43	9,676	5,253	1.50	10,376	6,588	1.65	12,224

KL4VA15UGDR - LARGE LOW AIR												
	-15°F BOX TEMPERATURE			-10°F BOX TEMPERATURE			-5°F BOX TEMPERATURE			5°F BOX TEMPERATURE		
INLET AMBIENT TEMP (°F)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)
70	8,471	2.06	15,489	9,344	2.17	16,763	10,217	2.29	18,027	12,390	2.53	21,024
75	8,304	2.10	15,462	9,146	2.22	16,706	10,015	2.33	17,977	12,170	2.59	21,009
80	8,137	2.14	15,434	8,947	2.26	16,649	9,813	2.38	17,927	11,950	2.65	20,995
85	7,969	2.18	15,407	8,748	2.30	16,591	9,612	2.42	17,877	11,729	2.71	20,980
90	7,802	2.22	15,380	8,549	2.34	16,534	9,410	2.47	17,827	11,509	2.77	20,966
95	7,634	2.26	15,352	8,351	2.38	16,476	9,208	2.51	17,777	11,288	2.83	20,951

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Air-Cooled Electrical Data

	AIR-COOLED MONOBLOCKS		
MODEL	KM2VA15UGDR	KL2VA15UGDR	KL4VA15UGDR
APPLICATION	MEDIUM TEMPERATURE	LOW TEMPERATURE	LOW TEMPERATURE
ELECTRICAL DATA			
Voltage (Volts/Phase/Hz)	230 / 1 / 50 / 60	230 / 1 / 50 / 60	230 / 1 / 50 / 60
Power (Watts)	1,925	1,925	2,332
MCA (Amps)	15	15	23
MOPD (Amps)	20	20	30
Compressor RLA / Each (Amps)	3.4	3.4	3.4
Compressor Power / Each (HP)	1.25	1.25	1.25
SYSTEM DATA			
Refrigerant	R-290	R-290	R-290
Charge / Circuit (Grams)	150	130	100
Number of Circuits	2	2	4
Total Charge (Grams)	300	260	400
Approximate Operating Weight (LBS)	262	267	324
HEAT REJECTION DATA			
Inlet Size (NPT)	N/A	N/A	N/A
Outlet Size (NPT)	N/A	N/A	N/A
Water Regulating Valve Model	N/A	N/A	N/A
Per Circuit Water Flow (GPM)	N/A	N/A	N/A
Total Water Flow (GPM)	N/A	N/A	N/A
Pressure Drop (PSI)	N/A	N/A	N/A
Minimum Ambient Inlet Temp (°F)	70	70	70
Maximum Ambient Inlet Temp (°F)	95	95	95
EVAPORATOR DATA			
Fan Quantity	2	2	2
Fan Power / Fan (Watts)	34	34	34
Fan RLA @ High Speed / Fan (Amps)	0.46	0.46	0.84
Airflow High Speed / Fan (CFM)	1,550	1,550	1,550
Airflow Low Speed / Fan (CFM)	800	800	800
Air Throw Distance (FT)	13	13	13
Defrost Type	Hot Gas	Hot Gas	Hot Gas
Termination (°F)	55	55	55
Defrost Interval (Hours)	4	4	4
Drain Connection (NPT)	3/4"-14	3/4"-14	3/4"-14
Controller			
Model	Dixel XWi70K	Dixel XWi70K	Dixel XWi70K

Water-Cooled Performance data

KM2VW15UGDx* - MEDIUM WATER**												
	28°F BOX TEMPERATURE			35°F BOX TEMPERATURE			40°F BOX TEMPERATURE			50°F BOX TEMPERATURE		
INLET WATER TEMP (°F)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)
50	11,829	1.41	16,649	12,084	1.35	16,703	13,851	1.50	18,976	15,536	1.58	20,916
60	11,392	1.47	16,410	11,664	1.42	16,518	13,269	1.56	18,581	14,832	1.63	20,391
70	10,955	1.53	16,171	11,244	1.49	16,333	12,686	1.61	18,187	14,129	1.68	19,867
80	10,519	1.59	15,932	10,824	1.56	16,149	12,104	1.67	17,792	13,425	1.73	19,343
90	10,082	1.64	15,693	10,403	1.63	15,964	11,522	1.72	17,398	12,722	1.79	18,818
100	9,645	1.70	15,454	9,983	1.70	15,779	10,940	1.78	17,003	12,019	1.84	18,294
110	9,208	1.76	15,215	9,563	1.77	15,594	10,357	1.83	16,609	11,315	1.89	17,770
115	8,990	1.79	15,096	9,353	1.80	15,502	10,066	1.86	16,411	10,963	1.92	17,508

KL2VW15UGDR - STANDARD LOW WATER**												
	-15°F BOX TEMPERATURE			-10°F BOX TEMPERATURE			-5°F BOX TEMPERATURE			5°F BOX TEMPERATURE		
INLET WATER TEMP (°F)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)
50	5,017	0.90	8,076	5,627	0.94	8,846	5,954	1.10	9,709	7,707	1.21	11,826
60	4,863	0.93	8,031	5,435	0.98	8,780	5,754	1.14	9,638	7,407	1.25	11,663
70	4,709	0.96	7,986	5,242	1.02	8,714	5,554	1.18	9,568	7,107	1.29	11,499
80	4,555	0.99	7,941	5,050	1.05	8,647	5,354	1.21	9,497	6,807	1.33	11,336
90	4,401	1.02	7,896	4,857	1.09	8,581	5,153	1.25	9,427	6,507	1.37	11,172
100	4,246	1.06	7,852	4,665	1.13	8,515	4,953	1.29	9,356	6,207	1.41	11,009
110	4,092	1.09	7,807	4,472	1.17	8,448	4,753	1.33	9,286	5,907	1.45	10,845
115	4,015	1.10	7,784	4,376	1.18	8,415	4,653	1.35	9,251	5,757	1.47	10,763

KL4VW15UGDR - LARGE LOW WATER**												
	-15°F BOX TEMPERATURE			-10°F BOX TEMPERATURE			-5°F BOX TEMPERATURE			5°F BOX TEMPERATURE		
INLET WATER TEMP (°F)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)	CAPACITY (BTU/H)	POWER (kW)	HEAT OF REJECTION (BTU/H)
50	9,231	1.79	15,344	10,630	1.92	17,188	11,861	2.01	18,738	13,658	2.18	21,106
60	9,001	1.86	15,346	10,290	1.99	17,069	11,520	2.09	18,658	13,204	2.28	20,969
70	8,772	1.93	15,348	9,950	2.05	16,951	11,179	2.17	18,577	12,750	2.37	20,831
80	8,542	1.99	15,350	9,611	2.12	16,832	10,838	2.24	18,497	12,296	2.46	20,693
90	8,312	2.06	15,352	9,271	2.18	16,713	10,497	2.32	18,417	11,842	2.55	20,555
100	8,082	2.13	15,354	8,931	2.25	16,594	10,157	2.40	18,337	11,388	2.65	20,417
110	7,852	2.20	15,356	8,592	2.31	16,476	9,816	2.47	18,256	10,934	2.74	20,279
115	7,738	2.23	15,357	8,422	2.34	16,416	9,645	2.51	18,216	10,707	2.78	20,210

***With or without real-time clock**

****Strainer and isolation valve kits required for water-cooled units. Refer to IO manual for more details on ordering options.**

Krack Monoblocks

Water-Cooled Electrical Data

	WATER-COOLED MONOBLOCKS		
MODEL	KM2VW15UGDX*	KL2VW15UGDR	KL4VW15UGDR
APPLICATION	MEDIUM TEMPERATURE	LOW TEMPERATURE	LOW TEMPERATURE
ELECTRICAL DATA			
Voltage (Volts/Phase/Hz)	230 / 1 / 50 / 60	230 / 1 / 50 / 60	230 / 1 / 50 / 60
Power (Watts)	1,783	1,135	2,200
MCA (Amps)	10	12.2	18
MOPD (Amps)	15	15	30
Compressor RLA / Each (Amps)	3.4	3.4	3.4
Compressor Power / Each (HP)	1.25	1.25	1.25
SYSTEM DATA			
Refrigerant	R-290	R-290	R-290
Charge / Circuit (Grams)	150	150	120
Number of Circuits	2	2	4
Total Charge (Grams)	300	300	480
Approximate Operating Weight (LBS)	256	254	344
HEAT REJECTION DATA			
Inlet Size (NPT)	3/4"-14	3/4"-14	3/4"-14
Outlet Size (NPT)	3/4"-14	3/4"-14	3/4"-14
Water Regulating Valve Model	Caleffi 127151M50	Caleffi 127151M50	Caleffi 127151M6
Per Circuit Water Flow (GPM)	2.2	2.2	1.76
Total Water Flow (GPM)	4.4	4.4	7.0
Pressure Drop (PSI)	12	12	12
Minimum Water Inlet Temp (°F)	50	50	50
Maximum Water Inlet Temp (°F)	115	115	115
EVAPORATOR DATA			
Fan Quantity	2	2	2
Fan Power / Fan (Watts)	34	34	34
Fan RLA @ High Speed / Fan (Amps)	0.46	0.46	0.46
Airflow High Speed / Fan (CFM)	1,550	1,550	1,550
Airflow Low Speed / Fan (CFM)	800	800	800
Air Throw Distance (FT)	13	13	13
Defrost Type	Hot Gas	Hot Gas	Hot Gas
Termination (°F)	55	55	55
Defrost Interval (Hours)	4	4	4
Drain Connection (NPT)	3/4"-14	3/4"-14	3/4"-14
Controller			
Model	Dixel XWi70K	Dixel XWi70K	Dixel XWi70K

*With or without real-time clock

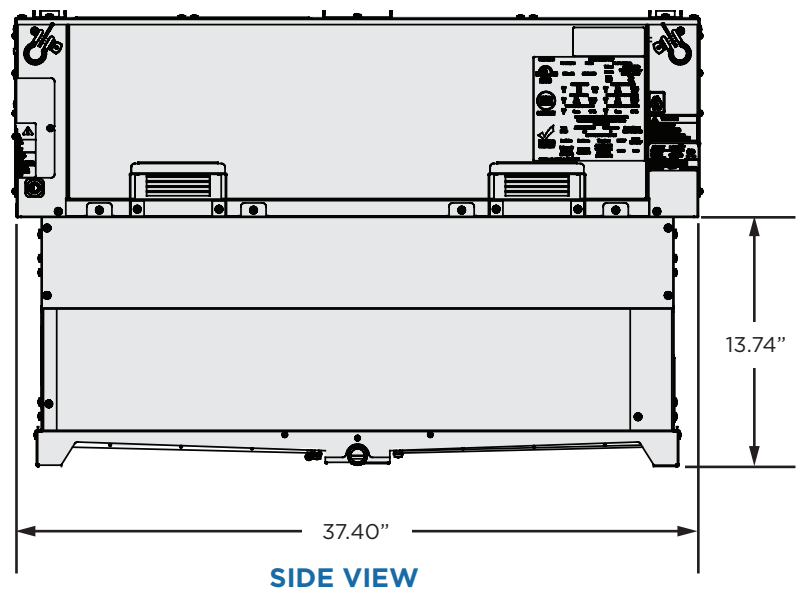
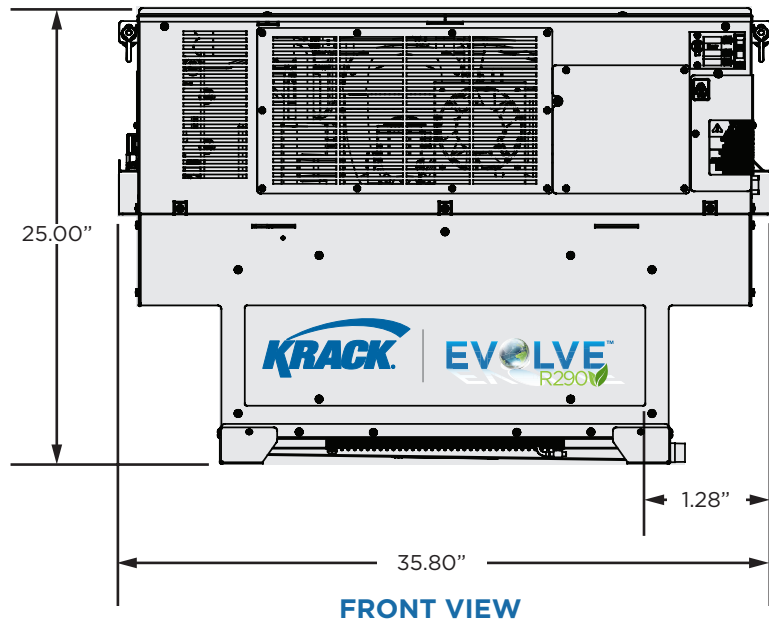
Krack Monoblocks

Air and Water-Cooled Dimensions

MODEL	KM2VA15UGDR	KL2VA15UGDR	KL4VA15UGDR	KM2VW15UGDX*	KL2VW15UGDR	KL4VW15UGDR
SYSTEM INFORMATION						
L x W x H (Inches)	37.4 x 35.8 x 25.0					
Net Weight (Lbs / Kg)	262 / 119	267 / 121	324 / 147	253 / 115	251 / 114	340 / 154
Shipping Weight (Lbs / Kg)	344 / 156	349 / 158	406/184	335 / 152	333 / 151	422 / 191

*With or without real-time clock

Shown:
Dimensions apply to **Krack®**
Monoblock models.





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NOTE: We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions, or replacements for equipment previously sold or shipped.



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